

1. Desktop type laser cutting machine, model: XD5030



Product Introduction

Desktop Laser Cutting Machine is designed for makerspaces, schools, and personal use. It offers a working area of 500*300mm and can cut materials up to 10mm thick. With its auto-focus system and precise repeat positioning accuracy, it ensures ease of use and high efficiency. Supporting various file formats (PLT, DXF, CDR, etc.), it is compatible with CorelDraw and AutoCAD, making it ideal for engraving and cutting wood, acrylic, and other materials. The machine is equipped with an air cooling system and multiple safety protections, ensuring stable and secure operation. Its user-friendly software supports functions like breakpoint continuation, path optimization, and more, making it perfect for educational, creative, and DIY projects.

Water-cooling system parameters (built-in):

Air cooling + radiator, working voltage: DC 24V / 20W, maximum head: 5M water flow: 1100L / H, water tank capacity: 5L

Air pump parameters (built-in):

Voltage: AC 220V / 16W Volume: 50L / min Noise: 48dB air pressure: 0.05 Mpa

Air absorption / filtration system parameters (external split):

Rated voltage: DC: 24V / 62W, air volume: 280 m³ / H, noise: 38 db,

AC 220V120W, air volume: 5.5 m³ / Min, noise: 55 db,

Filter treatment: filter net + activated carbon + UV ozone.

safeguard

Laser water flow protection, open cover protection, drawer protection.

Random accessories:

Including laser cutting machine electronic design kit supporting 1 paper textbook, 12 chapters course PPT, a gift packaging box, 400 * 200 * 3MM plate 10, toolbox, user manual, warranty card, user manual.

Host parameters:

Laser type	Closed CO2, laser tube
working area	500*300
Cut the thickness	10mm
working voltage	AC110-220V, 50-60HZ
foot platform	Black on the honeycomb workbench
laser power	60W (peak of 70W)
Repeat positioning accuracy	Less than 0.1
Carving speed	Above 0-6000mm / min
Focus system	auto-focusing
cooling-down method	Air cooling and protection system
Minimum forming text	In the English language, 1x1mm
Support file format	PLT、CDR、DWG、DXF、DST
compatible software	CorelDraw.AutoCAD
control software	DSP navar
Drive the motor	step-by-step
working temperature	From 0-45 degrees C
Working humidity	5% -95% is undoubtedly water
product size	1145*545*295mm
Packaging size	1270*680*490mm
Net weight / gross weight	55/85kg

Laser operation software:

- * The software is special operation software, supporting BMP, GIF, JPGE; PLT, DXF, DST, CDR, DWG, AI isovector format.
- * Support for making graphics, as well as the output processing data function.
- * Simple and easy operation, automatic map to set the processing speed and power. Cutting and carving can be performed simultaneously by layer
- * Supports manual bridge and bump and hole function, which is very convenient operation.
- * Support the convenient choice of multiple languages, including: simplified Chinese, traditional Chinese, English, Japanese, etc.
- * Support the breakpoint continuous carving (breakpoint continuous cutting) function, in the event of power failure or accidental shutdown recovery, can continue the previous work.
- * Support for the lead-cutting function. The software will automatically add leads to the graph to get a better corner cutting effect.
- * Support the pitch compensation and belt automatic compensation function. In the case of mechanical error or small figures are not closed, using software automatic compensation can solve the problem.

- * Supports multiple path optimization algorithms, including the shortest path, and the Z-shaped path algorithm for convenient feeding.
 - * With the array typesetting function, as well as the optimal typesetting function, can save materials.
 - * Support for the perforation function. At the same time, support the small garden perforation function.
 - * Supports undo operations.
- View operation function, support: translation, zoom display and other functions.
- Drawing view function, support: zoom, horizontal mirror, vertical mirror, rotation, locking, stretching, array and other functions.
- Graph creation function, support: rectangle, garden shape (garden, oval), text, Bessel curve and other graphics creation.
- Editing function of graphics, support modification points, reverse order, add and delete nodes, graphics segmentation and other functions.
- Bitmap processing function, support for color reverse, dot processing and other functions.